

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A calcium phosphate cement composition, comprising:
 - a biphasic powder A comprising α - $\text{Ca}_3(\text{PO}_4)_2$ ~~α - $\text{Ca}_3(\text{PO}_4)_2$~~ and $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$ ~~$\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$~~ ; and
 - a single phase powder B comprising $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$ ~~$\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$~~ wherein the cement has a molar ratio of Ca/P of 1.35 - 1.40.
2. (Original) A calcium phosphate cement composition of claim 1, wherein the powder A and the powder B are mixed in a mixing ratio of 70:30 to 80:20 by weight.
3. (Original) A calcium phosphate cement composition of claim 1, wherein the powder A and the powder B are mixed in a mixing ratio of 75:25 by weight.
4. (Original) A calcium phosphate cement composition of claim 1, wherein the particle size is less than 40 μm .
5. (Original) A calcium phosphate cement composition of claim 1, having a compressive strength of 34 - 39 MPa.
6. (Currently Amended) A calcium phosphate cement composition of claim 1, further comprising 15 wt% β - $\text{Ca}_3(\text{PO}_4)_2$ ~~beta- $\text{Ca}_3(\text{PO}_4)_2$~~ .
7. (Currently Amended) A calcium phosphate cement composition of claim 6, wherein the ~~said~~ composition has a compressive strength up to 50 ± 3 MPa.
8. (Original) A method of preparing a calcium phosphate cement composition, comprising:

- a) adding a preheated $\text{Ca}(\text{NO}_3)_2 \times 4\text{H}_2\text{O}$ solution to a $(\text{NH}_4)_2\text{HPO}_4$ solution under stirring followed by addition of concentrated NH_4OH solution and subsequently calcining β -calcium tertiary phosphate and hydroxyapatite to form a biphasic powder A comprising at least 95 wt% α -calcium tertiary phosphate and no more than 5 wt% hydroxyapatite;
 - b) adding a $\text{Na}_2\text{HPO}_4 \times 2\text{H}_2\text{O}$ solution to a KH_2PO_4 solution under stirring followed by adding of $\text{Ca}(\text{NO}_3)_2 \times 4\text{H}_2\text{O}$ to form single-phase powder B $\text{CaHPO}_4 \times 2\text{H}_2\text{O}$; and
 - c) mixing of powder A with powder B and subsequently milling to form the cement powder with an overall molar ratio of Ca/P of 1.35 - 1.40.
9. (Original) A method of claim 8, wherein powder A and powder B are mixed in a mixing ratio of 70:30 to 80:20 by weight.
10. (Original) A method of claim 8, wherein powder A and powder B are mixed in a mixing ratio of 75:25 by weight.
11. (Original) A method of claim 8, wherein the setting solution has a concentration of 3 wt%.
12. (Original) A method of claim 8, wherein the particle size of the calcium phosphate cement composition is less than 40 μm .
13. (Currently Amended) A method of claim 8, further comprising adding 15 wt% β -calcium tertiary phosphate whisker to increase the strength of the cement up to 50 \pm 3 MPa.

14. (Original) A method of claim 8, wherein a composition before calcining comprises at least 95 wt% β -calcium tertiary phosphate and no more than 5 wt% hydroxyapatite.
15. (Original) A method of claim 8, wherein the calcining is conducted at about 1200°C.
16. (Original) A method of claim 8, wherein the biphasic powder A comprises 95 wt% α -calcium tertiary phosphate and 5 wt% hydroxyapatite.
17. (Currently Amended) A calcium phosphate cement composition, consisting essentially of:
 - a biphasic powder A comprising α -Ca₃(PO₄)₂ and Ca₁₀(PO₄)₆(OH)₂ ~~Ca₁₀(PO₄)(OH)₂~~; and
 - a single phase powder B comprising CaHPO₄·2H₂O; wherein the cement has a molar ratio Ca/P of 1.35-1.40.
18. (Currently Amended) A calcium phosphate cement composition, consisting of:
 - a biphasic powder A comprising α -Ca₃(PO₄)₂ and Ca₁₀(PO₄)₆(OH)₂ ~~Ca₁₀(PO₄)(OH)₂~~; and
 - a single phase powder B comprising CaHPO₄·2H₂O; wherein the cement has a molar ratio Ca/P of 1.35-1.40.
19. (Original) A calcium phosphate cement composition of claim 1, wherein the cement has a molar ratio of Ca/P of 1.36 – 1.39.
20. (Original) A method according to claim 8, further comprising mixing a mixture of powders A and B with a setting solution, Na₂HPO₄·2H₂O.